



Gulf of Mexico Harmful Algal Bloom Bulletin

21 May 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: May 14, 2007

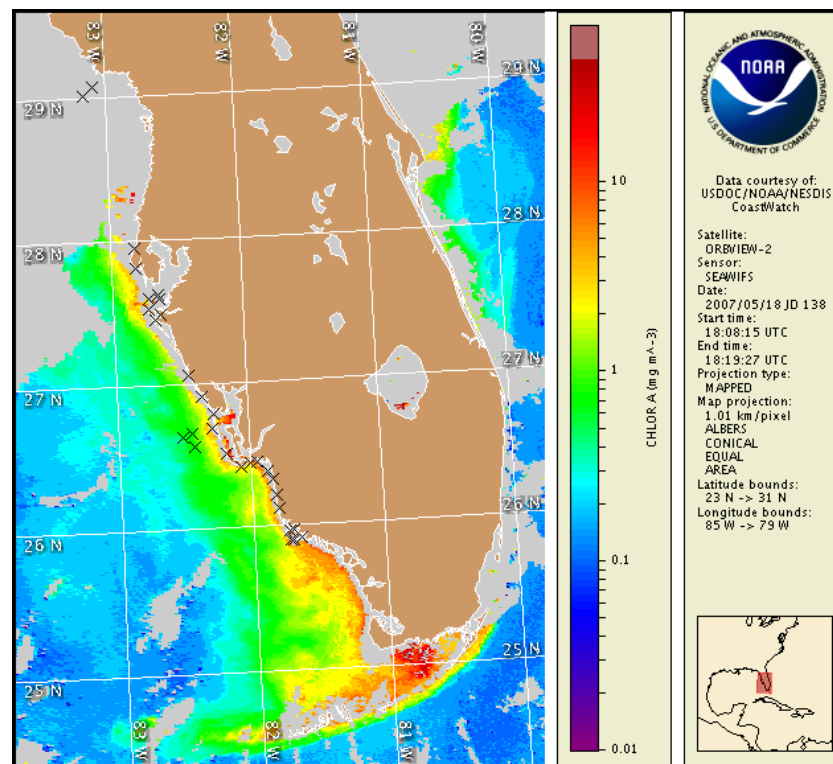
Conditions Report

There is no indication of harmful algal bloom presence alongshore Southwest Florida, including the Keys region, at the present time. No impacts are expected in any Florida counties through Monday, May 28.

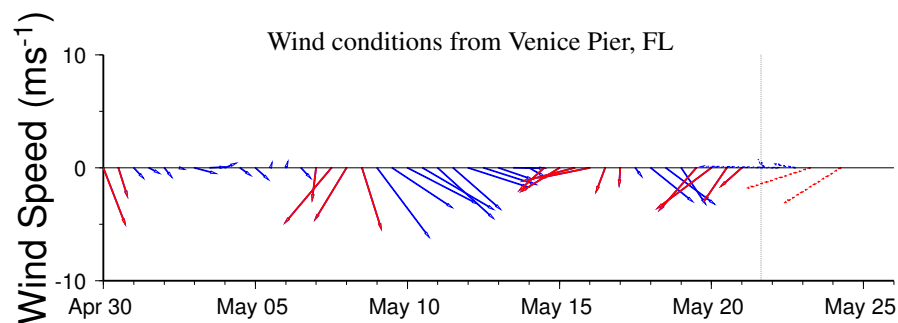
Analysis

Recent satellite imagery does not indicate the presence of *Karenia brevis* alongshore or offshore southwest Florida, including the Keys region, at the present time. Slightly elevated chlorophyll features are visible in patches along the coast and are attributed to varying concentrations of non-harmful algal species, as confirmed by field sampling over the past several weeks (FWRI, MML, SCHD). Prevailing easterly winds expected through Friday may promote upwelling conditions, however *K. brevis* bloom formation is unlikely.

~Fisher, Fenstermacher



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from May 11-16 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

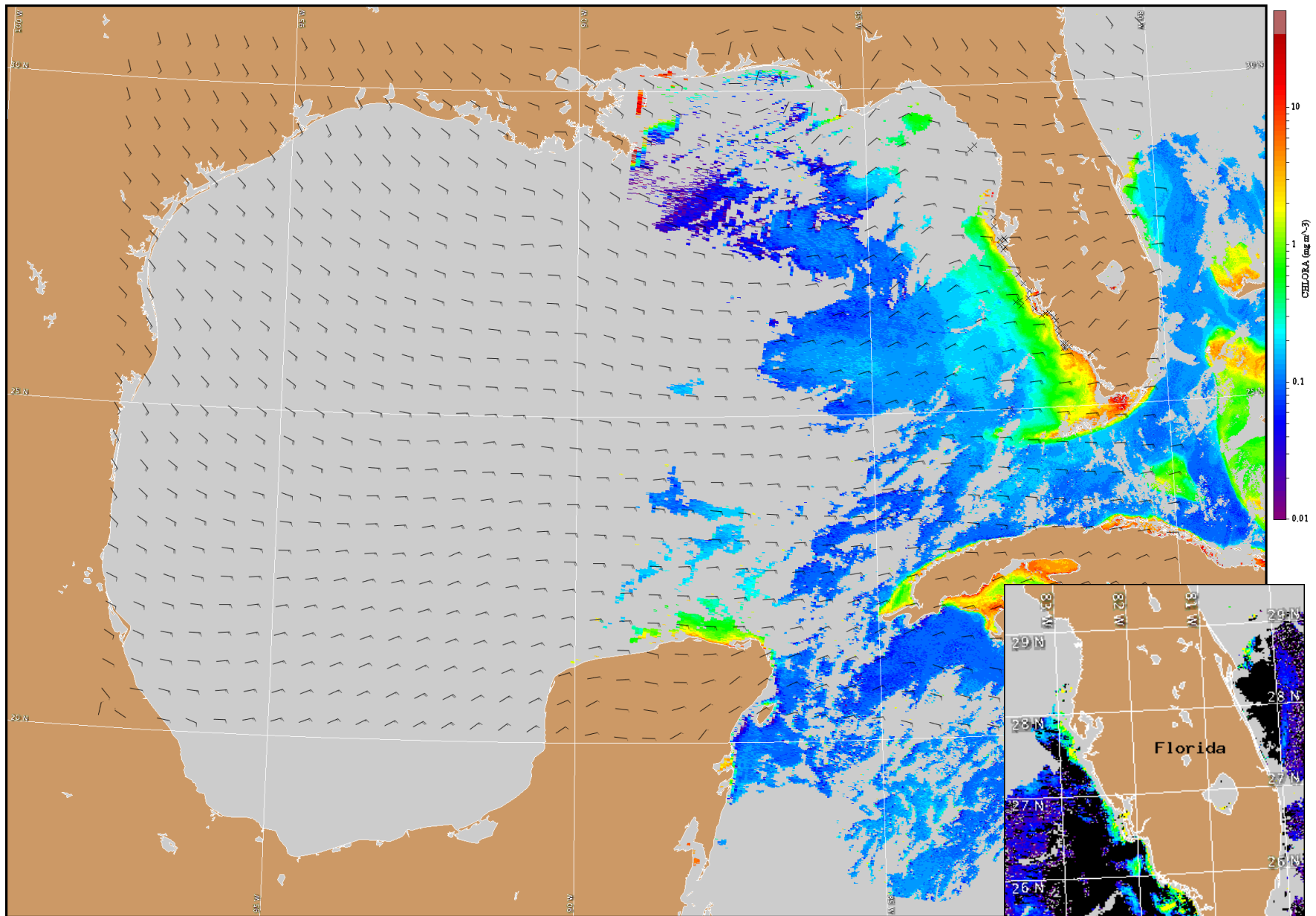


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Northeasterly winds this morning will become northwesterly this afternoon (10kts, 5m/s). Easterly winds tonight (15kts, 8m/s) are expected to continue through Friday, with stronger winds up to 20kts (10m/s) on Wednesday night and Thursday.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for May 22, 2007 06Z with cell concentration sampling data from May 11-16 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).